

CORRECTION OF IJIMA'S (1927) LIST OF RECENT HEXACTINELLID SPONGES (PORIFERA)

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Abstract.—Errors in the final species list of Ijima's posthumously published *Siboga* Monograph on the Hexactinellida (Porifera) have been the cause of misallocations of species in later publications and disorder of museum collections. The text of the entire monograph has been reviewed in detail in an attempt to provide a faithful reflection of Ijima's opinions and a corrected list of species as understood by him at the time of his death. A total of 421 forms are recognized, consisting of 381 species and 40 additional subspecies. The taxonomic actions attributable to Ijima in this monograph are summarized in an action list.

Isao Ijima's (1927) monograph, "The Hexactinellida of the *Siboga* Expedition," is still regarded by specialists as the most important authority for present taxonomic arrangement of this class of Porifera. It does, however, contain significant, unrecognized hazards for both casual and serious research users. Its prominence is attributable both to its major reorganization of higher taxa, which has served as the basis for later reviews (de Laubenfels 1936) and modifications (e.g., Reid 1957, 1963), and to its inclusion of a revised list of all extant hexactinellids—the last such attempt. The monograph's appended "List of Recognizably Known Recent Hexactinellids Arranged Systematically," pp. 364–377 (hereafter referred to as the "Final List" or "FL"), has served as reference for subsequent hexactinellid collection reports (e.g., Burton 1954) and as the basic guide for systematic arrangement of specimen collections of most major museums throughout the world. Unfortunately, the Final List is extensively flawed at lower taxonomic levels due to editorial actions in the preparation of the final publication.

As noted in Kaburaki's preface and the introduction to the monograph, Ijima inherited responsibility for the *Siboga* hex-

actinellid collection in 1907 after ill health incapacitated F. E. Schulze. Ijima spent the final ten years of his life preparing the report, but died in 1921 before completing his revision of the second half of the material—basically the Lyssacinosa. Responsibility for final preparation fell upon Y. Okada, Ijima's assistant, and Max Weber, the editor of the *Siboga* Series. While the main text is accepted here as a faithful reflection of Ijima's taxonomic opinions, the Final List, presumably assembled by Okada and/or Weber, contradicts Ijima's text conclusions on many points.

The Final List, with its unappreciated errors, continues to be the most widely used portion of the monograph due to omission of an index of scientific names in this work. Even Burton (1928), in his careful taxonomic review for the *Zoological Record*, failed to detect several new genera erected by Ijima. These errors continue to be perpetuated in modern literature (e.g., Hartman 1982, Koltun 1967, Reiswig 1979, Tuzet 1973), hence correction of the list is urgently needed. Ijima, a major figure in hexactinellid systematics, ranking second only to F. E. Schulze in terms of total contributions to the field, deserves better recognition for his last major accomplishment than appearing

to be the source of taxonomic confusion. Museum collection managers likewise need an accurate scheme for arranging specimens without the necessity of scrutinizing the fragmented literature of this class. A corrected version of the Final List is also required for eventual development of a current list of the recent hexactinellids and, ultimately, inclusion of fossil groupings into a single classification.

Because of the numerous contradictions to Ijima's text, the details presented in the Final List of the *Siboga* Monograph cannot be attributed to Ijima. The transfers and synonymies implied by that list should be ignored where these conflict with statements or implications of Ijima's text. In preparation of the corrected list, my primary aim has been to reflect Ijima's concepts as faithfully as possible. Simple errors of spelling and statements of authority as presented in the text have been corrected where these have been detected. Names for typical subspecies have been added where Ijima's recognition of atypic subspecies requires formal recognition of the reference taxon. Clear statements of uncertainty by Ijima on allocation of specific taxa are indicated by symbol. Text contradictions or absence of clear statement of allocation by Ijima were resolved by reviewing his previous publications and, occasionally, by educated guess. These points are clearly identified in the annotations. Species which Ijima either did not mention, or mentioned only in trivial context (lacking any implication of recognition), are identified by symbol. All transfers and synonymies attributed to Ijima in this work are included in an Action List, with the cautionary note that several of these may have been previously suggested, but without conviction of formal intent. A complete index of generic, specific and subspecific names contained in the *Siboga* Monograph is available from the author upon request. Publication date of the *Siboga* Monograph is often erroneously cited as

1926; the publisher, E. J. Brill, Leiden, has advised me that their booklet advertising the *Siboga* Series clearly states the date of availability as January, 1927 (H. Reerink, pers. comm.).

Corrected version of Ijima's 1927 "LIST OF RECOGNIZABLY KNOWN RECENT HEXACTINELLIDS ARRANGED SYSTEMATICALLY."

Ijima's overall systematic arrangement is retained, but in the absence of data on phylogenetic relationships at lower levels, species are listed alphabetically under genera and subgenera. All page numbers refer to Ijima, 1927. An asterisk (*) before the species number identifies species or subspecies either not mentioned or, if mentioned, not clearly allocated in the text; Ijima's concept of the status of these names, at the time of his death in 1921, cannot be assessed. Taxa for which Ijima explicitly or implicitly expressed uncertainty in recognition or allocation are indicated by a question mark after the species number. Brackets identify nominate subspecies which are implied but not formed in the text. They are required by recognition of non-nominate subspecies by Ijima, and, although formed here by HMR, their status is implied by Ijima. Annotations following the list are indicated by parentheses.

Suborder I AMPHIDISCOPHORA
Schulze, 1899

Fam. I PHERONEMATIDAE Gray, 1870
(emended)

Gen. 1 *Pheronema* Leidy, 1868; p. 7, 9

- *1 *annae* Leidy, 1868
- *2 *carpenteri* (Thomson, 1869)
- 3 *echinatum* Ijima, 1927; p. 9, 21
- 4 *giganteum* Schulze, 1886; p. 9, 10
- 5 *?gigas* (Schulze, 1886); p. 9, (a)
- 6 *globosum* Schulze, 1886; p. 21
- *7 *grayi* Kent, 1869
- *8 *hemisphaericum* Gray, 1873; p. 8
- 9 *raphanus* Schulze, 1894; p. 21
- 10 *weberi* Ijima, 1927; p. 9, 17

- Gen. 2 *Poliopogon* Thomson, 1873; p. 7, 9
 1 *amadou* Thomson 1873; p. 9
- Gen. 3. *Sericolophus* Ijima, (1894) 1901; p. 9, 25, (b)
 1 *reflexus* (Ijima, 1894); p. 25, 26
- Gen. 4 *Semperella* Gray, 1868; p. 9, 28
 1 *cucumis* Schulze, 1895; p. 28
 2 *schultzei* (Semper, 1868); p. 28
 3 *similis* Ijima, 1927; p. 28
 4 *spicifera* Schulze, 1904; p. 28
 5 *stomata* Ijima, 1896; p. 28
- Gen. 5 *Platylistrum* Schulze, 1904; p. 7, 9
 1 *platessa* Schulze, 1904; p. 25
- Fam. II MONORHAPHIDIDAE Ijima, 1927
- Gen. 1 *Monorhaphis* Schulze, 1904; p. 36, 37
 1 *chuni* Schulze, 1904; p. 37
 2 *dives* Schulze, 1904; p. 37
 3 *?fruticosa* (Schulze, 1893); p. 37, (c)
- Fam. III HYALONEMATIDAE Gray, 1857, emend.
- Gen. 1 *Chalaronema* Ijima, 1927; p. 41, 43
 1 *sibogae* Ijima, 1927; p. 43
- Gen. 2 *Hyalonema* Gray, 1832; p. 43, 49
- Subgen. 1 *Euhyalonema* Ijima, 1927; p. 50
 1 *intermedium* Ijima, 1927; p. 50, 55
 2 *keianum* Ijima, 1927; p. 50, 58
 3 *pellucidum* (Ijima, 1894); p. 50, 52
 4 *proximum* (Schulze, 1904); p. 50
 5 *sieboldi* (Gray, 1835); p. 50
- Subgen. 2. *Pteronema* Ijima, 1927; p. 50
 1 *aculeatum* (Schulze, 1894); p. 50
 2 *cebuense* (Higgin, 1875); p. 50
 3 *globus* (Schulze, 1886); p. 50
 4 *heideri* (Schulze, 1894); p. 50
 5 *polycaulum* (Lendenfeld, 1915); p. 50, (c)
 6 *topsenti* Ijima, 1927; p. 50, 61
- Subgen. 3 *Coscinonema* Ijima, 1927; p. 50
 1 *conus* (Schulze, 1886); p. 51
 2 *?elegans* (Schulze, 1886); p. 51
 3 *?gracile* (Schulze, 1886); p. 51
 4 *heymonsi* Schulze, 1895; p. 51, (d)
 5 *indicum andamanense* (Schulze, 1895); p. 51, (e)
 6 *indicum laccadivense* (Schulze, 1895); p. 51, (e)
 7 *kenti* (Schmidt, 1880); p. 51
 8 *kirkpatricki* Ijima, 1927; p. 51, 68
 9 *lamella* (Schulze, 1900); p. 51
 10 *pateriferum* (Wilson, 1904); p. 51, 52
 11 *schmidti* (Schulze, 1899); p. 51
 12 *toxeres* (Thomson, 1877); p. 51, (c)
- Subgen. 4 *Cyliconema* Ijima, 1927; p. 50, 51
 1 *apertum apertum* (Schulze, 1886); p. 51, (f)
 2 *apertum maehrenthali* (Schulze, 1895); p. 51, 72, (b, g)
 3 *coniforme* (Schulze, 1904); p. 51
 4 *drygalskii* (Schulze, 1910); p. 51
 5 *globiferum* (Schulze, 1904); p. 51
 6 *infundibulum* (Topsent, 1896); p. 51
 7 *keiense* Ijima, 1927; p. 51, 90
 8 *martabanense* (Schulze, 1900); p. 51, (h)
 9 *molle* (Schulze, 1904); p. 51
 10 *nicobaricum* (Schulze, 1904); p. 51, (i)
 11 *ovatum* (Ijima, 1895); p. 51
 12 *pirum* (Schulze, 1895); p. 51
 13 *rapa* (Schulze, 1900); p. 51, (b)
 14 *simile* (Schulze, 1904); p. 51
 15 *somalicum* (Schulze, 1904); p. 51, (i)
 16 *tenerum* (Schulze, 1886); p. 51
 17 *thomsonis* (Marshall, 1875); p. 51, (c)
 18 *timorense* Ijima, 1927; p. 51, 88
 19 *tulipa* (Schulze, 1904); p. 51
 20 *valdiviae* (Schulze, 1904); p. 51
- Subgen. 5 *Paradisconema* Ijima, 1927; p. 50, 52
 1 *alcocki* (Schulze, 1895); p. 52

- 2 *investigatoris* (Schulze, 1900); p. 52
 3 *vosmaeri* Ijima, 1927; p. 52, 93

Subgen. 6 *Leptonema* Lendenfeld, 1915; p. 50, 52

- 1 *acuferum* (Schulze, 1893); p. 52
 2 *campanula* Lendenfeld, 1915; p. 52
 3 *divergens* (Schulze, 1886); p. 52
 4 *flagelliferum* Ijima, 1927; p. 52, 97
 5 *lusitanicum* (B. d. Bocage, 1864); p. 52
 6 *ovuliferum* (Schulze, 1899); p. 52
 7 *solutum* (Schulze, 1904); p. 52
 8 *urna* (Schulze, 1904); p. 52

Subgen. 7 *Thamnonema* Ijima, 1927; p. 50, 52

- 1 *thamnophorum* Ijima, 1927; p. 52, 99

Subgen. 8 *Phialonema* Lendenfeld, 1915; p. 50, 52

- 1 *brevancora* Lendenfeld, 1915; p. 52

Subgen. 9 *Prionema* Lendenfeld, 1915; p. 50, 52

- 1 *agujanum* Lendenfeld, 1915; p. 52, 53
 2 *azuerone* Lendenfeld, 1915; p. 53
 3 *crassum* Lendenfeld, 1915; p. 53
 4 *fimbriatum* Lendenfeld, 1915; p. 53
 5 *pinulifusum* Lendenfeld, 1915; p. 53
 6 *poculum* (Schulze, 1886); p. 53
 7 *spinatum* Lendenfeld, 1915; p. 53
 8 *validum* (Schulze, 1904); p. 53

Subgen. 10 *Corynonema* Ijima, 1927; p. 50, 53

- 1 *calix* (Schulze, 1904); p. 53
 2 *clathratum* (Ijima, 1895); p. 53
 3 *clavigerum* (Schulze, 1886); p. 53
 4 *?cupressiferum* (Schulze, 1893); p. 53, (h)
 5 *?depressum* (Schulze, 1886); p. 53
 6 *grandancora* (Lendenfeld, 1915); p. 53
 7 *hercules* (Schulze, 1899); p. 53
 8 *masoni* (Schulze, 1895); p. 53

- 9 *owstoni* (Ijima, 1894); p. 53
 10 *placuna* (Lendenfeld, 1915); p. 53
 11 *populiferum* (Schulze, 1899); p. 53
 12 *rotundum* Ijima, 1927; p. 53, 102
 13 *tenuifusum* (Lendenfeld, 1915); p. 53
 14 *tylostylum* (Lendenfeld, 1915); p. 53
 15 *weltneri* (Schulze, 1895); p. 53

Subgen. 11 *Onconema* Ijima, 1927; p. 50, 53

- 1 *agassizi* (Lendenfeld, 1915); p. 53
 2 *obtusum gracile* (Lendenfeld, 1915); p. 53, (h,i)
 3 *obtusum robustum* (Lendenfeld, 1915); p. 53, (h,i)

Subgen. 12 *Oonema* Lendenfeld, 1915 (emended); p. 50, 53

- 1 *aequatoriale* (Lendenfeld, 1915); p. 54, (k)
 2 *bianchoratum* (Wilson, 1904); p. 53, 54
 3 *crassipinulum* Lendenfeld, 1915; p. 54
 4 *densum* Lendenfeld, 1915; p. 54
 5 *geminatum* (Lendenfeld, 1915); p. 54, (k)
 6 *henshawii* Lendenfeld, 1915; p. 54
 7 *pedunculatum* (Wilson, 1904); p. 54
 8 *robustum* (Schulze, 1886); p. 54
 9 *sequoia* Lendenfeld, 1915; p. 54
 10 *umbraculum* (Lendenfeld, 1915); p. 54, (k)

Gen. 3. *Compsocalyx* Schulze, 1904; p. 41, 43

- *1 *gibberosa* Schulze, 1904

Gen. 4 *Lophophysema* Schulze, 1900; p. 41, 43

- *1 *inflatum* Schulze, 1900

Suborder II HEXASTEROPHORA
 Schulze, 1899

Tribe A HEXACTINOSA Schrammen,
 1910-1912

- Subtribe a CLAVULARIA Schulze, 1886
 Fam. I FARREIDAE Schulze, 1886
 Gen. 1 *Farrea* Bowerbank, 1862; p. 130

- 1 *aculeata* Schulze, 1899; p. 131
 - 2 *convolvulus* Schulze, 1899; p. 131, 158
 - 3 *hanitschi* Ijima, 1927; p. 151
 - 4 *lendenfeldi* Ijima, 1927; p. 159
 - 5 *mexicana* Wilson, 1904; p. 160
 - 6 *nodulosa* Ijima, 1927; p. 154
 - 7 *occa claviformis* Wilson, 1904; p. 132, 140
 - 8 *occa clavigera* (Schulze, 1887); p. 131, 137
 - 9 *occa cuspidata* Ijima, 1927; p. 145
 - 10 *occa erecta* Ijima, 1927; p. 132
 - 11 *occa foliascens* Topsent, 1906; p. 162
 - *12 *occa laminaris* Topsent, 1904
 - 13 *occa mammillata* Ijima, 1927; p. 142
 - 14 *occa occa* Bowerbank, 1862, Carter, 1885; p. 131, (b)
 - 15 *occa ouwensi* Ijima, 1927; p. 148
 - *16 *occa scutella* Lendenfeld, 1915
 - 17 *occa subclavigera* Ijima, 1927; p. 140
 - 18 *sollasi* Schulze, 1886; p. 153
 - 19 *spirifera* Ijima, 1927; p. 156
 - 20 *vosmaeri* Schulze, 1886; p. 131, 154
 - 21 *weltneri* Topsent, 1901; p. 153
- Gen. 2 *Lonchiphora* Ijima, 1927; p. 130, (1)
- 1 *inversa* Ijima, 1927; p. 162, (1)
- Gen. 3 *Claviscopulia* Schulze, 1899; p. 126, 130, (h)
- *1 *intermedia* Schulze, 1899
- Gen. 4 *Sarostegia* Topsent, 1904; p. 130
- *1 *oculata* Topsent, 1904; p. 124
- Subtribe b. SCOPULARIA Schulze, 1886
Fam. I EURETIDAE Schulze, 1886
- Gen. 1 *Eurete* Semper, 1868; p. 165, 166, (b, m)
- 1 *bowerbanki* Schulze, 1886; p. 165, 166
 - 2 *freelandi* Ijima, 1927; p. 167, 176
 - 3 *marshalli* Schulze, 1886; p. 166, 167
 - 4 *schmidti kampeni* Ijima, 1927; p. 173
 - 5 *schmidti schmidti* Schulze, 1886, Ijima, 1927; p. 166, 171, (f)
 - 6 *schmidti treubi* Ijima, 1927; p. 170
 - 7 *simplicissimum* Semper, 1868; p. 166
 - 8 *spinosum* Lendenfeld, 1915; p. 166
 - 9 *trachydocus* Ijima, 1927; p. 168
- Gen. 2 *Pararete* Ijima, 1927; p. 165, 178
- 1 *baliense* Ijima, 1927; p. 178, 187, (n)
 - 2 *carteri* (Schulze, 1886); p. 166, 178
 - 3 *farreopsis farreopsis* (Carter, 1877) Ijima, 1927; p. 166, 178
 - 4 *farreopsis fragiferum* Ijima, 1927; p. 182
 - 5 *farreopsis jakosalemi* Ijima, 1927; p. 178, 185
 - 6 *farreopsis subglobosum* Ijima, 1927; p. 178, 183
 - 7 *freeri* Ijima, 1927; p. 178, 190
 - 8 *gerlachei* (Topsent, 1901); p. 166, 178
 - 9 *kangeanganum* Ijima, 1927; p. 178, 189, (n)
 - 10 *semperi* (Schulze, 1886); p. 178, 193
- Gen. 3 *Pleurochorium* Schrammen, 1910–1912; p. 165, 195
- 1 *annandalei* (Kirkpatrick, 1908); p. 166, 196, (h)
 - 2 *cornutum* Ijima, 1927; p. 196, 197
- Gen. 4 *Periphragella* Marshall, 1875; p. 165, 203
- 1 *challengeri* Ijima, 1927; p. 204
 - 2 *elisae [elisae]* Marshall, 1875; p. 165, 204, (o)
 - 3 *elisae japonica* Ijima, 1927; p. 204, (p)
 - 4 *irregularis* Ijima, 1927; p. 205, 208
 - 5 *lusitanica* Topsent, 1890; p. 205
 - 6 *parva* Ijima, 1927; p. 205
- Gen. 5 *Lefroyella* Thomson, 1877; p. 165, 210
- 1 *ceramensis* Ijima, 1927; p. 210
 - 2 *decora* Thomson, 1877; p. 165, 210
- Gen. 6 *Myliusia* Gray, 1859; p. 165, 213
- 1 *callocyathus* Gray, 1859; p. 165, 215
 - 2 *conica* (Schmidt, 1880); p. 214
 - 3 *?subglobosa* (Gray, 1867); p. 214, (b)
 - 4 *verrucosa* Ijima, 1927; p. 214, 217

- Gen. 7 *Margaritella* Schmidt, 1880; p. 113, 165, (h)
 1 *coeloptychioides* Schmidt, 1880; p. 165
- Gen. 8 *Chonelasma* Schulze, 1886; p. 118, 165, (q)
 *1 *ijimai* Topsent, 1901
 2 *lamella* [*lamella*] Schulze, 1886; p. 165, (o)
 *3 *lamella choanoides* Schulze & Kirkpatrick, 1910
- Gen. 9 *Ptychodesia* Schrammen, 1910–1912; p. 165
 1 *doederleini* (Schulze, 1886); p. 165
- Gen. 10 *Bathyxiphus* Schulze, 1899; p. 165
 1 *subtilis* Schulze, 1899; p. 165
- Gen. 11 *Heterorete* Dendy, 1916; p. 165
 1 *pulchrum* Dendy, 1916; p. 165, (h)
- Gen. 12 *Dactylocalyx* Stutchbury, 1841; p. 114, 166, (r)
 1 *ingalli* (Bowerbank, 1869); p. 214
 2 *?patella* Schulze, 1887; p. 231
 *3 *potatorum* Schmidt, 1880
 4 *pumiceus* Stutchbury, 1841; p. 166, 214
- Gen. 13 *Iphiteon* Bowerbank, 1869; p. 166, (h)
 1 *panicea* Bowerbank, 1869; p. 166
- Gen. 14 *Conorete* Ijima, 1927; p. 165, 166, (f, m)
 1 *erectum erectum* (Schulze, 1899); p. 165, 166
 *2 *erectum tubuliferum* (Wilson, 1904)
 *3 *erectum gracile* (Wilson, 1904)
 *4 *erectum* forma D (Lendenfeld, 1915)
 *5 *mucronatum* (Wilson, 1904)
- Gen. 15 *Gymnorete* Ijima, 1927; p. 165, 166, (f, m, s)
 1 *alicei* (Topsent, 1901); p. 165, 166
- Fam. II TRETODICTYIDAE Schulze, 1886 1886
- Gen. 1 *Tretodictyum* (Schulze, 1886); p. 219, 220, (u)
 1 *?labyrinthicum* (Wilson, 1904); p. 231, (t)
 2 *pumicosum* Ijima, 1927; p. 220, 229
 3 *schrammeni* Ijima, 1927; p. 220, 224
 4 *tubulosum* (Schulze, 1886); p. 220, 221
- Gen. 2 *Hexactinella* Carter, 1885; p. 219, 231
 1 *grimaldii* Topsent, 1890; p. 231, 234
 2 *lata* (Schulze, 1886); p. 231, 235
 3 *lingua* Ijima, 1927; p. 231, 242
 4 *rugosa* Ijima, 1927; p. 231, 237
 5 *?spongiosa* Ijima, 1927; p. 231, 246, (u)
 6 *ventilabrum* Carter, 1885; p. 231, 232
 7 *vermiculosa* Ijima, 1927; p. 231, 239
- Gen. 3 *Auloplax* Schulze, 1904; p. 219, 231
 1 *auricularis* Schulze, 1904; p. 219, 231
 2 *?filholi* (Topsent, 1904); p. 231, 244, (v)
- Gen. 4 *Cyrtaulon* Schulze, 1887; p. 219
 1 *sigsbeeii* (Schmidt, 1880); p. 6
 2 *solutus* Schulze, 1886; p. 219
- Gen. 5 *Tretocalyx* Schulze, 1900; p. 219
 1 *monticularis* (Lendenfeld, 1915); p. 231
 2 *polae* Schulze, 1900; p. 219
- Gen. 6 *Sclerothamnopsis* Wilson, 1904; p. 219, 248
 1 *compressa* Wilson, 1904, p. 219, 248
 2 *schulzei* Ijima, 1927; p. 248, 249
- Gen. 7 *Sclerothamnus* Marshall, 1875; p. 219, 253
 1 *clausi* Marshall, 1875; p. 219, 253
- Gen. 8 *Psilocalyx* Ijima, 1927; p. 219, 265
 1 *wilsoni* Ijima, 1927; p. 219, 265

Gen. 9 *Anomochone* Ijima, 1927; p. 219, 268

- 1 *expansa* Ijima, 1927; p. 219, 269
- 2 *globosa* Ijima, 1927; p. 272

Fam. III AULOCALYCIDAE Ijima, 1927

Gen. 1 *Aulocalyx* Schulze, 1886; p. 274, 276

- 1 *irregularis* Schulze, 1886; p. 274
- 2 *serialis* Dendy, 1916; p. 274

Gen. 2 *Rhabdodictyum* (Schmidt, 1880); p. 274, 276

- 1 *delicatum* (Schmidt, 1880); p. 274, 277
- 2 *kurense* Ijima, 1927; p. 274, 277

Gen. 3 *Euryplegma* Schulze, 1886; p. 274, 276

- 1 *auriculare* Schulze, 1886; p. 274

Gen. 4 *Fieldingia* Kent, 1870; p. 274, 276

- 1 *lagetoides* Kent, 1870; p. 274

Gen. 5 *Tretopleura* Ijima, 1927; p. 276, 280

- 1 *candelabrum* Ijima, 1927; p. 274, 280

Fam. IV CRATICULARIDAE Rauff, 1893

Gen. 1 *Tretorete* Ijima, 1927; p. 298

- 1 *incertum* Ijima, 1927; p. 298

Fam. V APHROCALLISTIDAE Gray, 1867

Gen. 1 *Aphrocallistes* Gray, 1858; p. 284, 286, (w)

- 1 *beatrice beatrice* Gray, 1858, Ijima, 1916; p. 286, 297
- 2 *beatrice orientalis* Ijima, 1916; p. 287, 288
- 3 *vastus* Schulze, 1886; p. 286, 287

Gen. 2. *Heterochone* Ijima, 1927; p. 284, 285, (f, q)

- 1 *calyx* (Schulze, 1886); p. 118, 284
- 2 *?hamata* (Schulze, 1886); p. 284, (h)
- 3 *tenera* (Schulze, 1899); p. 284, (h)

Tribe B LYCHNISCOSA Schrammen, 1903

Fam. I AULOCYSTIDAE Schulze, 1886, (b)

Gen. 1 *Aulocystis* Schulze, 1886; p. 302

- 1 *grayi grayi* (Bowerbank, 1869); p. 302, 304
- 2 *grayi polae* Ijima, 1927; p. 303, 304
- 3 *zitteli sibogae* Ijima, 1927; p. 304, 305
- 4 *zitteli zitteli* (Marshall & Meyer, 1877) Ijima, 1927; p. 302, 304

Incertae Sedis (Aulocystidae)

- 1 *?superstes* Schmidt, 1880, (*Cystis-pongia*); p. 302, (f)
- 2 *?mixtum* Schmidt, 1880, (*Diplacodium*); p. 302, (f)
- 3 *?lanterna* Schmidt, 1880, (*Scleroplegma*); p. 214, 302, (f)

Fam. II DIAPLEURIDAE Ijima, 1927

Gen. 1 *Diapleura* Ijima, 1927; p. 314

- 1 *maasi* Ijima, 1927; p. 314

Tribe C LYSSACINOSA Ijima, 1927

Fam. I LEUCOPSACADIDAE Ijima, 1903, (h)

Gen. 1 *Leucopsacas* Ijima, (1898) 1903; p. 320

- 1 *orthodocus* Ijima, 1898; p. 321
- 2 *scoliodocus* [*scoliodocus*] Ijima, 1898; p. 320, 321, (o)
- 3 *scoliodocus retroscissa* Topsent, 1904; p. 321, (f)

Gen. 2 *Placopegma* Schulze, 1896; p. 320

- *1 *solutum* Schulze, 1896; p. 105, 319

Gen. 3 *Caulocalyx* Schulze, 1886; p. 320

- *1 *tenera* Schulze, 1886, (h)

Gen. 4 *Chaunangium* Schulze, 1904; p. 320

- *1 *crater* Schulze, 1904

Gen. 5 *Chaunoplectella* Ijima, (1896) 1903; p. 320, 323

- 1 *cavernosa* Ijima, 1896; p. 323, 324

- 2 *spinifera* Ijima, 1903; p. 323
 3 *stelleta* Ijima, 1927; p. 320, 323
- Fam. II EUPLECTELLIDAE (Gray, 1867)
 Ijima, 1903, (b)
- Subfam. a Euplectellinae Ijima, 1903
- Gen. 1 *Euplectella* Owen, 1841; p. 327
- *1 *aspera* Schulze, 1895
 2 *aspergillum* Owen, 1841; p. 106, 329
 *3 *crassistellata* Schulze, 1886
 *4 *cucumer* Owen, 1857
 *5 *curvistellata* Ijima, 1901
 6 *imperialis* Ijima, 1894; p. 105, 327
 *7 *jovis* Schmidt, 1880
 8 *marshalli* Ijima, 1895; p. 328, 334
 *9 *nobilis* Schulze, 1904
 *10 *nodosa* Schulze, 1886
 *11 *oweni* Herklots & Marshall, 1868
 12 *regalis* Schulze, 1900; p. 327, 334
 *13 *simplex* Schulze, 1895
 *14 *suberea* Thomson, 1876
 15 *timorensis* Ijima, 1927; p. 327
- Gen. 2 *Holascus* Schulze, 1886; p. 327
- *1 *edwardsi* Lendenfeld, 1915
 *2 *fibulatus* Schulze, 1886
 *3 *obesus* Schulze, 1904
 *4 *polejaevi* Schulze, 1886
 *5 *ridleyi* Schulze, 1886
 *6 *robustus* Schulze, 1895
 *7 *stellatus* Schulze, 1887
 *8 *tener* Schulze, 1895
 *9 *tenuis* Schulze, 1904
 *10 *undulatus* Schulze, 1899
- Gen. 3. *Malacosaccus* Schulze, 1886; p. 327
- *1 *coatsi* Topsent, 1910; p. 105
 *2 *floricomatus* Topsent, 1901
 *3 *pedunculatus* Topsent, 1910
 *4 *unguiculatus* Schulze, 1886
 *5 *vastus* Schulze, 1886
- Gen. 4 *Docosaccus* Topsent, 1910; p. 327
- *1 *ancoratus* Topsent, 1910; p. 105
- Gen. 5. *Acoelocalyx* Topsent, 1910; p. 327
- *1 *brucei* Topsent, 1910; p. 105
- Gen. 6 *Holascella* Lendenfeld, 1915; p. 327
- *1 *ancorata* Lendenfeld, 1915
 *2 *euonyx* Lendenfeld, 1915
 *3 *taraxacum* Lendenfeld, 1915
- Subfam. b Corbitellinae Ijima, 1903
- Gen. 1 *Regadrella* Schmidt, 1880; p. 334, 335
- 1 *cylindrica* Ijima, 1927; p. 335
 2 *decora* Schulze, 1900; p. 335
 3 *delicata* Wilson, 1904; p. 337
 4 *komeyamai* Ijima, 1901; p. 337
 5 *okinoseana* Ijima, 1896; p. 335
 6 *phoenix* Schmidt, 1880; p. 337
- Gen. 2 *Corbitella* Gray, 1867; p. 344
- *1 *elegans* (Marshall, 1875)
 *2 *pulchra* (Schulze, 1887)
 *3 *speciosa* (Quoy & Gaimard, 1833); p. 106
- Gen. 3 *Heterotella* Gray, 1867; p. 344
- *1 *corbicula* (Bowerbank, 1858)
- Gen. 4 *Walteria* Schulze, 1886; p. 343
- 1 *flemmingi* Schulze, 1886; p. 343
 2 *leuckarti* Ijima, 1896; p. 343
- Gen. 5 *Dictyaulus* Schulze, 1895
- *1 *elegans* Schulze, 1895
- Gen. 6 *Dictyocalyx* Schulze, 1886
- *1 *gracilis* Schulze, 1886; p. 277
- Gen. 7 *Hertwigia* Schmidt, 1880
- *1 *falcifera* Schmidt, 1880
- Gen. 8 *Trachycaulus* Schulze, 1886
- *1 *gurlitti* Schulze, 1886
- Gen. 9 *Saccocalyx* Schulze, 1895; p. 276
- *1 *pedunculata* Schulze, 1895; p. 279, (h)
- Gen. 10 *Rhabdopectella* Schmidt, 1880; p. 276
- *1 *tintinnus* Schmidt, 1880; p. 279

- Gen. 11 *Hyalostylus* Schulze, 1886
 *1 *dives* Schulze, 1886
- Gen. 12 *Bolosoma* (Ijima, 1903) Schulze, 1904; p. 334, 340, (b)
 1 *cavum* Ijima, 1927; p. 340
 2 *paradictyum* (Ijima, 1903); p. 341
- Fam. III CAULOPHACIDAE Ijima, 1903
- Gen. 1 *Caulophacus* Schulze, 1886, p. 345, 346
 *1 *agassizi* Schulze, 1899
 *2 *antarcticus* Schulze & Kirkpatrick, 1910
 *3 *arcticus* (Hansen, 1885)
 *4 *elegans* Schulze, 1886
 *5 *instabilis* Topsent, 1910
 *6 *latus* Schulze, 1886
 7 *oviformis* (Schulze, 1886); p. 345
 *8 *pipetta* (Schulze, 1886)
 *9 *schulzei* Wilson, 1904
 *10 *scotiae* Topsent, 1910
 *11 *valdiviae* Schulze, 1904; p. 106
- Gen. 2. *Caulophacella* Lendenfeld, 1915; p. 345, 346
 *1 *tenuis* Lendenfeld, 1915
- Gen. 3 *Sympagella* Schmidt, 1870; p. 345, 346, (h)
 *1 *anomala* Ijima, 1903
 *2 *cantharellus helix* Lendenfeld, 1915; p. 345, (x)
 *3 *cantharellus megonychia* Lendenfeld, 1915; p. 345, (x)
 *4 *cantharellus simplex* Lendenfeld, 1915; p. 345, (x)
 5 *gracilis* (Schulze, 1903); p. 345
 *6 *johnstoni* (Schulze, 1903)
 7 *nux* Schmidt, 1870; p. 106
- Gen. 4 *Caulodiscus* Ijima, 1927; p. 345, 346, (f)
 1 *lotifolium* (Ijima, 1903); p. 345, (f)
- Fam. IV ROSSELLIDAE (Schulze, 1886), Ijima, 1903; (b)
- Subfam. a Lanuginellinae Schulze, 1897
- Gen. 1 *Lanuginella* Schmidt, 1869; p. 352
 1 *pupa* Schmidt, 1870; p. 352
- Gen. 2 *Lanugonychia* Lendenfeld, 1915; p. 347
 1 *flabellum* Lendenfeld, 1915; p. 347
- Gen. 3 *Calycosoma* Schulze, 1899; p. 345
 1 *validum* Schulze, 1896; p. 345
- Gen. 4 *Mellonympha* Schulze, 1897; p. 105, 319
 *1 *velata* (Thomson, 1873)
- Gen. 5 *Lophocalyx* Schulze, 1887; p. 348
 1 *philippinensis* (Gray, 1872); p. 348, 352
 2 *spinosa* Schulze, 1900; p. 352
 3 *suluana* Ijima, 1927; p. 348, 352, (h)
- Subfam. b Rossellinae Schulze, 1897
- Gen. 1 *Rossella* Carter, 1872; p. 105, 319
 *1 *antarctica antarctica* Carter, 1872; p. 105
 *2 *antarctica gausi* Schulze & Kirkpatrick, 1910
 *3 *anarctica solida* Kirkpatrick, 1907
 *4 *dubia* (Schulze, 1886)
 *5 *fibulata* Schulze & Kirkpatrick, 1910
 *6 *gaussi* Schulze & Kirkpatrick, 1910
 *7 *lychnophora* Schulze & Kirkpatrick, 1910
 *8 *mixta* Schulze & Kirkpatrick, 1910
 *9 *nodastrella* Topsent, 1915
 *10 *podagrosa* Kirkpatrick, 1907
 *11 *racovitzae hexactinophila* Kirkpatrick, 1910
 *12 *racovitzae microdiscina* Topsent, 1916
 *13 *racovitzae minuta* Schulze & Kirkpatrick, 1910
 *14 *racovitzae [racovitzae]* Topsent, 1901; (o, y)
 *15 *racovitzae racovitzae* Schulze & Kirkpatrick, 1910; (b, y)
- Gen. 2 *Aulorossella* Kirkpatrick, 1907; p. 353

- *1 *aperta* Topsent, 1916
 *2 *gaini* Topsent, 1916
 *3 *laevis* Kirkpatrick, 1907
 *4 *longstaffi* Kirkpatrick, 1907
 *5 *pilosa* Kirkpatrick, 1907
 *6 *vanhoeffeni armata* Schulze & Kirkpatrick, 1910
 *7 *vanhoeffeni* [*vanhoeffeni*] Schulze & Kirkpatrick, 1910; (o)
- Gen. 3 *Gymnorossella* Topsent, 1916; p. 353
 *1 *inermis* Topsent, 1916
 *2 *nuda* (Topsent, 1901)
- Gen. 4 *Scyphidium* Schulze, 1900
 *1 *chilense* Ijima, 1904, 1927; (b)
 *2 *longispina* (Ijima, 1896)
 *3 *namiyei* (Ijima, 1898)
 *4 *septentrionale* Schulze, 1900
- Gen. 5 *Vitrollula* Ijima, 1898
 *1 *fertilis* Ijima, 1898
- Gen. 6 *Schaudinnia* Schulze, 1900; p. 105, 319
 *1 *arctica* Schulze, 1900; p. 105
- Gen. 7 *Crateromorpha* Gray, 1872
 *1 *corrugata* Ijima, 1898
 *2 *meyeri* [*meyeri*] Gray, 1872
 *3 *meyeri rugosa* Ijima, 1898
 *4 *meyeri tuberosa* Ijima, 1898
 *5 *pachyactina* Ijima, 1898
 *6 *thierfelderi* Schulze, 1886
 *7 *tumida* Schulze, 1886
- Gen. 8 *Hyalascus* Ijima, 1896
 *1 *giganteus* Ijima, 1898
 *2 *hodgsoni* Kirkpatrick, 1907
 *3 *sagamiensis* Ijima, 1896
 *4 *similis* Ijima, 1904
- Gen. 9 *Anaulosoma* Kirkpatrick, 1907; p. 353
 *1 *schulzei* Kirkpatrick, 1907
- Gen. 10 *Aulochone* Schulze, 1886
 *1 *cylindrica* Schulze, 1886
- *2 *lankesteri* (Kirkpatrick, 1902)
 *3 *lilium* Schulze, 1886
- Gen. 11 *Aulosaccus* Ijima, 1896
 *1 *ijimae* (Schulze, 1899)
 *2 *misukurii* Ijima, 1898
 *3 *schulzei* Ijima, 1896
- Gen. 12 *Asconema* Kent, 1870
 *1 *setubalense* Kent, 1870
- Gen. 13 *Trichasterina* Schulze, 1900; p. 105, 319
 1 *borealis* Schulze, 1900; p. 105
 *2 *sagittaria* Topsent, 1913
- Gen. 14 *Aphorme* Schulze, 1899
 *1 *horrida* Schulze, 1899
- Gen. 15 *Bathydorus* Schulze, 1886; p. 353
 1 *baculifer* Schulze, 1886; p. 355
 2 *fimbriatus* Schulze, 1886; p. 355
 3 *laevis* [*laevis*] Schulze, 1895; p. 355
 *4 *laevis ciliatus* Topsent, 1910
 *5 *laevis spinosus* Wilson, 1904
 6 *pedunculatus* Ijima, 1927; p. 353
 *7 *spinosissimus* Lendenfeld, 1915
 8 *spinosus* Schulze, 1886; p. 355
 9 *stellatus* Schulze, 1886; p. 355
 10 *uncifer* Schulze, 1899; p. 355
- Gen. 16 *Anoxycalyx* Kirkpatrick, 1907; p. 353
 *1 *ijimai* Kirkpatrick, 1907
- Gen. 17 *Scolymastra* Topsent, 1916; p. 353
 *1 *joubini* Topsent, 1916
- Subfam. c. *Acanthascinae* Schulze, 1897; (b)
 Gen. 1 *Acanthascus* Schulze, 1886; p. 355
 *1 *alani* Ijima, 1898
 *2 *cactus* Schulze, 1886
 *3 *platei* Schulze, 1899
- Gen. 2 *Staurocalyptus* Ijima, 1897; p. 355
 1 *affinis* Ijima, 1904; p. 357
 2 *celebesianus* Ijima 1927; p. 355, (h)
 3 *dowlingi* (Lambe, 1893); p. 357

- *4 *entacanthus* Ijima, 1904
- *5 *fasciculatus* Schulze, 1899
- 6 *glaber* Ijima, 1897; p. 357
- *7 *hamatus* Lendenfeld, 1915
- 8 *heteractinus* Ijima, 1897; p. 357
- 9 *microchetus* Ijima, 1898; p. 357
- *10 *pleorhaphides* Ijima, 1897
- *11 *roeperi* (Schulze, 1886)
- *12 *solidus* Schulze, 1899
- *13 *tubulosus* Ijima, 1904

Gen. 3 *Rhabdocalyptus* Schulze, 1886; p. 355

- *1 *asper* Schulze, 1899
- *2 *australis* Topsent, 1901
- *3 *baculifer* Schulze, 1904
- *4 *capillatus* Ijima, 1897
- *5 *dawsoni* (Lambe, 1892); (h)
- 6 *mirabilis* Schulze, 1899; p. 107, 108
- *7 *mollis* Schulze, 1886
- *8 *nodulosus* Schulze, 1899
- *9 *plumodigitatus* Kirkpatrick, 1901
- *10 *tener* Schulze, 1899
- *11 *tenuis* (Schulze, 1899)
- *12 *unguiculatus* Ijima, 1904
- 13 *victor* Ijima, 1897; p. 325

Annotations

- (a) Ijima suggested transfer of *Poliopogon gigas* to *Pheronema* or to a new unnamed genus.
- (b) Authority corrected—name(s), date or punctuation.
- (c) Suffix differs from FL or text; form chosen to conform either to text usage or original spelling where recent ICZN rule ammendment permits.
- (d) Erroneously treated in FL as a synonym of *H. indicum* and misspelled as “*heymousi*.”
- (e) Ijima makes no mention of the two subspecies *H. (C.) indicum andamanense* (Schulze, 1895) and *H. (C.) indicum lacdivense* (Schulze, 1895); the species and the two subspecies are erroneously given separate (duplicate) entries in the FL. Distinction of the two subspecies is retained as common for the period.
- (f) Name (genus, species or subspecies) was erroneously omitted from FL.
- (g) Indication as n. ssp. on p. 55 is erroneous.
- (h) Misspelling of FL or text is corrected.
- (i) FL entry of subspecies *nicobaricum* and *somalicum* does not agree with text; Ijima may have been “doubtful” that these are specifically distinct (p. 51) but he listed them as recognized species. FL also contradicts Schulze (1904) who, with doubt, recognized *somalicum* as a species but did not mention *nicobaricum*. Both are included here in conformity with Ijima’s text list.
- (j) FL erroneously contains separate entries for *H. (Onconema) obtusum* as well as the two constituent varieties: *gracilis* and *robusta*; since Ijima’s concept of the varieties (subspecies here) is not stated, they are accepted as for the period.
- (k) Ijima clearly dropped the subgenera *Skianema* Lendenfeld, 1915, and *Thaltonema* Lendenfeld, 1915, to synonymy with *Oonema* Lendenfeld, 1915, in the text. Their retention in FL, and the position of their contained species, are erroneous.
- (l) Ijima did not intend his terse descriptions of *Lonchiphora* and *L. inversa* provided here to constitute formal diagnoses; strict reflection of his opinion would require deletion of these from the corrected FL. However, his intent to provide a more detailed report at a later date was never realized. The information given by Ijima has been accepted by Reid, 1958 and 1963, and by the author as adequate indications for both. The relation of Ijima’s “*L. sp.*” to *L. inversa* needs reevaluation.
- (m) Species and subspecies entries of FL under *Eurete* are particularly troublesome. Text statements clearly indicate Ijima’s movement of *E. erectum erectum*, *E. erectum tubuliferum* and *E. erectum gracile* to *Conorete*. *E. alicei* Topsent, 1901, is also clearly transferred to *Gym-*

- norete alicei* (Topsent, 1901). The allocation of *E. erectum* forma D Lendenfeld, 1915, and *E. mucronatum* Wilson, 1904, are not indicated in the text, but symbols on FL are interpreted to reflect Ijima's text implication to transfer these to *Conorete*.
- (n) Placement in FL as a subspecies is erroneous; it is a newly described species.
- (o) The required nominate subspecies name is inserted by HMR.
- (p) FL entry as a full species is erroneous; *japonica* is clearly described as a subspecies of *P. elisae* in the text. There is no earlier use of *P. japonica*.
- (q) Ijima's transfer of *C. calyx* Schulze, 1886, and *C. tenerum* Schulze, 1899, and suggested transfer of *H. hamatum* Schulze, 1886, to *Heterochone* are accepted. He made no mention of *H. lamella* subspecies, but they are included with indication of their uncertain status.
- (r) Ijima's (p. 210) recognition of *D. crispus* Schmidt, 1870, as a questionable synonym of *Lefroyella decora* Thomson, 1877, is accepted as intent; retention of *D. crispus* in FL is considered erroneous.
- (s) The undescribed species, *Gymnorete variolosum* mentioned on p. 120, 166, was a nomen nudem as of 1927. Reference to the ms form *Gymnodictyum variolosum* (p. 164) is taken as a mistaken reference to that species.
- (t) Ijima's intent to transfer *Hexactinella labyrinthica* to *Tretodictyum* is ambiguous but accepted.
- (u) Ijima's occasional use of "*Tretodictyum spongiosum*" in the text, e.g., p. 209, 236, is nowhere stated to imply taxonomic validity of that combination; these are interpreted to be errors in reference to *Hexactinella spongiosa* Ijima.
- (v) Text statements concerning distinction between *A. auricularis* and *filholi* are contradictory; the final text remark is adopted.
- (w) Here (p. 297) and in his last (1916) publication, Ijima clearly rejects formal recognition of many historic names for varieties and subspecies of *A. beatrix* (e.g., *bocagei*, *ramosus* and *azoricus*) and forms of *A. vastus* (*vastus* and *whiteavesianus*). He does, however, maintain distinction of *A. beatrix orientalis* which necessitates acceptance of a named nominate subspecies, *A. beatrix beatrix* Gray, but it is understood to include all of the other poorly known forms not included in *A. beatrix orientalis*. The species status accorded to *A. bocagei*, *ramosus*, and *whiteavesianus* in FL is contrary to Ijima's concepts.
- (x) FL erroneously retains *Calycosilva Lendenfeld, 1915*, and the single species consisting of 3 varieties (here subspecies); the move to *Sympagella* is clearly indicated on p. 345.
- (y) Schulze and Kirkpatrick, 1910, employed the nominate trinomial, *Rossella racovitzae racovitzae*, for a form clearly not assignable to Topsent's type; it requires a new subspecific name.

Action List

Taxonomic actions, at and below generic level, which are attributable to Ijima, 1927, are arranged alphabetically within subclass. Newly erected taxa may be identified by authority on the preceding Corrected List. Transfer is represented by "origin → final"; synonymy by "junior ⇒ senior"; "?" indicates that Ijima expressed lack of strong conviction for the action or inconsistency in his statements.

AMPHIDISCOPHORA:

- aculeatum* (Schulze, 1894), p. 50 (*Hyalonema*) → (*Pteronema*).
- aequatoriale* Lendenfeld, 1915, p. 54 (*Ski-anema*) → (*Oonema*).
- agassizi* (Lendenfeld, 1915), p. 53 (*Hyalonema*) → (*Onconema*).
- alcocki* (Shulze, 1895), p. 52 (*Hyalonema*) → (*Paradisconema*).

- apertum apertum* (Schulze, 1886), p. 51 (*Hyalonema*) → (*Cyliconema*).
- apertum maehrentali* (Schulze, 1895), p. 51 (*Hyalonema*) reinstated and → (*Cyliconema*).
- calix* (Schulze, 1904), p. 53 (*Hyalonema*) → (*Corynonema*).
- cebuense* (Higgin, 1875), p. 50 (*Hyalonema*) → (*Pteronema*).
- clathratum* (Ijima, 1895), p. 53 (*Hyalonema*) → (*Corynonema*).
- clavigerum* (Schulze, 1886), p. 53 (*Hyalonema*) → (*Corynonema*).
- coniforme* (Schulze, 1904), p. 51 (*Hyalonema*) → (*Cyliconema*).
- conus* (Schulze, 1886), p. 51 (*Hyalonema*) → (*Coscinonema*).
- cupresiferum* (Schulze, 1893), p. 53 (*Pri-onema*) ? → (*Corynonema*).
- depressum* (Schulze, 1886), p. 53 (*Lepto-nema*) ? → (*Corynonema*).
- drygalskii* (Schulze, 1910), p. 51 (*Hyalonema*) → (*Cyliconema*).
- elegans* (Schulze, 1886), p. 51 (*Hyalonema*) ? → (*Coscinonema*).
- fruticosum* Schulze, 1893, p. 37 *Hyalonema* ? → *Monorhaphis*.
- geminatum* Lendenfeld, 1915, p. 54 (*Thal-lonema*) → (*Oonema*).
- gigas* Schulze, 1902, p. 9, *Poliopogon* ? → *Pheronema*.
- globiferum* (Schulze, 1904), p. 51 (*Oonema*) → (*Cyliconema*).
- globus* (Schulze, 1886), p. 50 (*Hyalonema*) → (*Pteronema*).
- gracile* (Schulze, 1886), p. 51 (*Hyalonema*) ? → (*Coscinonema*).
- grandancora* (Lendenfeld, 1915), p. 53 (*Hyalonema*) → (*Corynonema*).
- heidleri* (Schulze, 1894), p. 50 (*Hyalonema*) → (*Pteronema*).
- hercules* (Schulze, 1899), p. 53 (*Hyalonema*) → (*Corynonema*).
- heymonsi* Schulze, 1895, p. 51 (*Hyalonema*) → (*Coscinonema*).
- (*Hyalonema*) s. restr. Lendenfeld, 1915, p. 49, 50 subdivided to 7 new subgenera: (*Euhyalonema*), (*Pteronema*), (*Coscinonema*), (*Cyliconema*), (*Paradisconema*), (*Corynonema*), (*Onconema*).
- indicum* (Schulze, 1895) p. 51 (*Hyalonema*) with 2 ssp. → (*Coscinonema*).
- infundibulum* (Topsent, 1896), p. 51 (*Hyalonema*) → (*Cyliconema*).
- investigatoris* (Schulze, 1900), p. 52 (*Hyalonema*) → (*Paradisconema*).
- kenti* (Schmidt, 1880), p. 51 (*Hyalonema*) → (*Coscinonema*).
- lamella* (Schulze, 1900), p. 51 (*Hyalonema*) → (*Coscinonema*).
- lusitanicum* (B. d. Bocage, 1864), p. 52 (*Pri-onema*) → (*Leptonema*).
- martabanense* (Schulze, 1900), p. 51 (*Hyalonema*) → (*Cyliconema*).
- masoni* (Schulze, 1895), p. 53 (*Hyalonema*) → (*Corynonema*).
- molle* (Schulze, 1904), p. 51 (*Hyalonema*) → (*Cyliconema*).
- nicobaricum* (Schulze, 1904), p. 51 (*Hyalonema*) → (*Cyliconema*).
- obtusum* (Lendenfeld, 1915), p. 53 (*Hyalonema*) with 2 ssp. → (*Onconema*).
- ovatum* (Ijima, 1895), p. 51 (*Hyalonema*) → (*Cyliconema*).
- ovuliferum* (Schulze, 1899), p. 52 (*Oonema*) → (*Leptonema*).
- owstoni* (Ijima, 1894), p. 53 (*Hyalonema*) → (*Corynonema*).
- pateriferum* (Wilson, 1904), p. 51 (*Phialonema*) → (*Coscinonema*).
- pellucidum* (Ijima, 1894), p. 50 (*Phialonema*) → (*Euhyalonema*).
- pirum* (Schulze, 1895), p. 51 (*Hyalonema*) → (*Cyliconema*).
- placuna* (Lendenfeld, 1915), p. 53 (*Hyalonema*) → (*Corynonema*).
- polycaulum* (Lendenfeld, 1915), p. 50 (*Hyalonema*) → (*Pteronema*).
- populiferum* (Schulze, 1899), p. 53 (*Hyalonema*) → (*Corynonema*).
- proximum* (Schulze, 1904), p. 50 (*Hyalonema*) → (*Euhyalonema*).
- rapa* (Schulze, 1900), p. 51 (*Hyalonema*) → (*Cyliconema*).
- schmidti* (Schulze, 1899), p. 51 (*Hyalonema*) → (*Coscinonema*).

- sieboldi* (Gray, 1835), p. 28, 50 (*Hyalonema*) → (*Euhyalonema*).
- simile* (Schulze, 1904), p. 51 (*Hyalonema*) → (*Cyliconema*).
- (*Skianema*) Lendenfeld, 1915, p. 49 ⇒ (*Oonema*) Lendenfeld, 1915.
- somalicum* (Schulze, 1904), p. 51 (*Hyalonema*) → (*Cyliconema*).
- tenerum* (Schulze, 1886), p. 51 (*Oonema*) → (*Cyliconema*).
- tenuifusum* (Lendenfeld, 1915), p. 53 (*Hyalonema*) → (*Corynonema*).
- (*Thallonema*) Lendenfeld, 1915, p. 49 ⇒ (*Oonema*) Lendenfeld, 1915.
- thomsonis* (Marshall, 1875), p. 51 (*Hyalonema*) → (*Cyliconema*).
- toxeres* (Thomson, 1877), p. 51 (*Hyalonema*) → (*Coscinonema*).
- tulipa* (Schulze, 1904), p. 51 (*Hyalonema*) → (*Cyliconema*).
- tylostylum* (Lendenfeld, 1915), p. 53 (*Hyalonema*) → (*Corynonema*).
- umbraculum* Lendenfeld, 1915, p. 54 (*Skianema*) → (*Oonema*).
- valdiviae* (Schulze, 1904), p. 51 (*Hyalonema*) → (*Cyliconema*).
- weltneri* (Schulze, 1895), p. 53 (*Hyalonema*) → (*Corynonema*).
- HEXASTEROPHORA:**
- alicei* Topsent, 1901, p. 166 *Eurete* → *Gymnorete*.
- annandalei* Kirkpatrick, 1908, p. 166 *Eurete* → *Pleurochorium*.
- Calycosilva* Lendenfeld, 1915, p. 345 ⇒ *Sympagella* Schmidt, 1870.
- calyx* Schulze, 1886, p. 118, 284 *Chonelasma* → *Heterochone*.
- cantharellus* Lendenfeld, 1915, p. 345 *Calycosilva* with 3 ssp. implied → *Sympagella*.
- carteri* Schulze, 1886, p. 166, 178 *Eurete* → *Pararete*.
- Chonelasma* Schulze, 1886, p. 118, 284 part → *Heterochone* Ijima, 1927.
- clavigera* (Schulze, 1887) Topsent, 1904, p. 137 *Claviscopulia* → *Farrea occa clavigera* (Schulze, 1887).
- conicum* Schmidt, 1880, p. 214 *Scleroplegma* → *Myliusia*.
- doederleini* Schulze, 1886, p. 165 *Chonelasma* → *Ptychodesia*.
- erectum* Schulze, 1899, p. 166 *Eurete* → *Conorete*.
- farreopsis* Carter, 1877, p. 166, 178 *Eurete* → *Pararete farreopsis farreopsis*.
- filholi* Topsent, 1904, p. 112, 231, 244 *Hexactinella* ? → *Auloplax*.
- gerlachei* Topsent, 1901, p. 166 *Eurete* → *Pararete*.
- hamatum* Schulze, 1886, p. 284 *Chonelasma* ? → *Heterochone*.
- ingalli* Bowerbank, 1869, p. 214 *Iphiteon* → *Dactylocalyx*.
- labyrinthica* Wilson, 1904, p. 231 *Hexactinella* ? → *Tretodictyum*.
- latum* Schulze, 1886, p. 220, 231 *Tretodictyum* → *Hexactinella*.
- Leucopsacus* Ijima, 1898, p. 320 → *Leucopsacus* (spelling correction).
- lotifolium* Ijima, 1903, p. 345 *Caulophacus* → *Caulodiscus*.
- monticularis* (Lendenfeld, 1915), p. 231 *Hexactinella* → *Tretocalyx*.
- occa* Bowerbank, 1862, Carter, 1885, p. 131 → *Farrea occa occa* Bowerbank, 1862, Carter, 1885.
- oviformis* (Schulze, 1886), p. 345 *Pleorhabdus* implied → *Caulophacus*.
- Pleorhabdus* (Schulze, 1887), p. 345 ⇒ *Caulophacus* Schulze, 1886.
- Ramella* Schulze, 1904, p. 130 ⇒ *Sarostegia* Topsent, 1904.
- schmidti* Schulze, 1886, p. 171 *Eurete* → *Eurete schmidti schmidti*.
- schulzei* Topsent, 1890, 1892, 1901, 1904, p. 205 *Chonelasma* ⇒ *Periphragella lusitanica* Topsent.
- semperi* (Schulze, 1886), p. 166 *Eurete* → *Pararete*.
- subglobosus* Gray, 1867, p. 214 *Dactylocalyx* ? → *Myliusia*.
- subglobosus* of Schmidt, 1880 & Schulze, 1887, p. 214 *Dactylocalyx* ? ⇒ *Dactylocalyx ingalli* (Bowerbank).
- Syringidium* Schmidt, 1880, p. 210 ⇒ *Lefroyella* Thomson, 1877.

- tenerum* Schulze, 1899, p. 284 *Chonelasma*
→ *Heterochone*.
tubulosa Schulze, 1904, p. 130 *Ramella* ?
⇒ *Sarostegia oculata* Topsent, 1904.
zitteli Schmidt, 1880, p. 210 *Syringidium*
⇒ *Lefroyella decora* Thomson, 1877.

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